



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION IX  
75 Hawthorne Street  
San Francisco, CA 94105-3901

October 28, 2020

Dr. Matt Miyasato, Deputy Executive Officer  
Science and Technology Advancement  
South Coast Air Quality Management District  
21865 Copley Drive  
Diamond Bar, California 91765-4178

Dear Dr. Miyasato:

Thank you for your submission of the South Coast Air Quality Management District (SCAQMD) *Annual Air Quality Monitoring Network Plan* on July 1, 2020. We have reviewed the submitted document based on the requirements set forth in 40 CFR Part 58. Based on the information provided in the plan, the U.S. Environmental Protection Agency (EPA) approves all portions of the network plan except those specifically identified below. With this plan approval, we also formally approve an FEM waiver for the following sites, for the time periods specified in Enclosure B to this letter: Central Los Angeles (Main St.) (AQS ID: 06-037-1103-9), Long Beach Route 710 (AQS ID: 06-037-4008-3), Mira Loma (AQS ID: 06-065-8005-3). Also, per 40 CFR part 58 Appendix D and §40 CFR 58.12(d)(1), we formally approve the sample frequency reduction waiver request for Big Bear Air Monitoring Station (AQS ID: 06-071-8001), for the time period specified in Enclosure C to this letter. More information about these approvals are included in Enclosures B and C. Please include these waivers with next year's network plan.

Please note that we cannot approve portions of the annual network plan for which the information in the plan is insufficient to judge whether the requirement has been met, or for which the information provided does not meet the requirements as specified in 40 CFR 58.10 and the associated appendices. EPA Region 9 also cannot approve portions of the plan for which the EPA Administrator has not delegated approval authority to the regional offices. Enclosure A (*A. Annual Monitoring Network Plan Checklist*) is the checklist EPA used to review your plan for items that are required to be included in the annual network plan along with our assessment of whether the plan submitted by your agency addresses those requirements. Items highlighted in yellow are those EPA Region 9 is not acting on, as we either

lack the authority to approve the specific item, or we have determined that a requirement is either not met or information in the plan is insufficient to judge whether the requirement has been met. Please note that we are not acting on the following system modification requests: Burbank (AQS ID: 06-037-1002), Hudson (AQS ID: 06-037-4006), North Long Beach (AQS ID: 06-037-4002), Ontario Fire Station (AQS ID: 06-071-0025), and Riverside Magnolia (AQS ID: 06-065-1003). We are also not acting on the following siting waiver request: Pasadena (AQS ID: 06-037-2005). More information about these system modification and siting waiver requests is included in Enclosure A. Items highlighted in green in Enclosure A require attention in order to improve next year's plan.

We also want to thank you for your timely submission of the 2020 *Five Year Air Monitoring Network Assessment* for the SCAQMD, as required under 40 CFR Part 58.10. We recognize that preparing the network assessment was a significant project and we appreciate your effort.

All comments conveyed via this letter and enclosures should be addressed prior to submittal of next year's annual monitoring network plan to EPA. If you have any questions regarding this letter or the enclosed comments, please feel free to contact me at (415) 947-4134 or Bilal Qazzaz at (415) 947-3532.

Sincerely,

Gwen Yoshimura, Manager  
Air Quality Analysis Office

Enclosures:

- A. Annual Monitoring Network Plan Checklist
- B. Approval of SCAQMD Request for PM<sub>2.5</sub> Waiver
- C. Approval of Sample Frequency Reduction at Big Bear Air Monitoring Station

cc (via email): Jason Low, SCAQMD  
Rene Bermudez, SCAQMD  
Jin Xu, California Air Resources Board (CARB)  
Kathy Gill, CARB  
Michael Miguel, CARB  
Michael Werst, CARB  
Sylvia Vanderspek, CARB  
Webster Tasat, CARB

## A. ANNUAL MONITORING NETWORK PLAN CHECKLIST

(Updated April 8, 2020)

Year: 2020

Agency: South Coast Air Quality Management District

40 CFR 58.10(a)(1) requires that each Annual Network Plan (ANP) shall provide for the documentation of the establishment and maintenance of an air quality surveillance system that consists of a network of SLAMS monitoring stations that can include FRM, FEM, and ARM monitors that are part of SLAMS, NCore, CSN, PAMS, and SPM stations.

40 CFR 58.10(a)(1) further directs that, “The plan shall include a statement of whether the operation of each monitor meets the requirements of appendices A, B, C, D, and E of this part, where applicable. The Regional Administrator may require additional information in support of this statement.” On this basis, review of the ANPs is based on the requirements listed in 58.10 along with those in Appendices A, C, D, and E.

EPA Region 9 will not take action to approve or disapprove any item for which Part 58 grants approval authority to the Administrator rather than the Regional Administrators, but we will do a check to see if the required information is included and correct. The items requiring approval by the Administrator are: NCore, and Speciation (STN/CSN).

Please note that this checklist summarizes many of the requirements of 40 CFR Part 58, but does not substitute for those requirements, nor do its contents provide a binding determination of compliance with those requirements. The checklist is subject to revision in the future and we welcome comments on its contents and structure.

Key:

White	meets the requirement
Yellow	requirement is not met, or information is insufficient to make a determination. Action requested in next year’s plan or outside the ANP process.
Green	item requires attention in order to improve next year’s plan.

	ANP requirement	Citation within 40 CFR 58 <sup>1</sup>	Was the information submitted? <sup>2</sup> If yes, section or page #s.	Does the information provided <sup>3</sup> meet the requirement? <sup>4</sup>	Notes
<b>GENERAL PLAN REQUIREMENTS</b>					
1.	Submit plan by July 1 <sup>st</sup>	58.10 (a)(1)	Y	Y	Plan submitted on July 1, 2020
2.	30-day public comment / inspection period	58.10 (a)(1); 58.10 (c)	Y, p.2	Y	No public comments received
3.	Statement of whether the operation of each monitor meets the requirements of appendices A, B, C, D, and E, where applicable	58.10 (a)(1)	Y, p.2	Y	
4.	Modifications to SLAMS network – case when we are not approving system modifications	58.10 (a)(2); 58.10 (b)(5); 58.10 (e); 58.14	Y, p. 22-24	Insufficient to judge	SCAQMD has submitted system modifications outside of this ANP submission: <ul style="list-style-type: none"> <li>• Burbank</li> <li>• Hudson</li> <li>• Long Beach</li> <li>• Ontario FS</li> <li>• Riverside Magnolia</li> </ul> These system modifications are under review and will be evaluated outside of the ANP process.
5.	Modifications to SLAMS network – case when we are approving system modifications per 58.14	58.10 (a)(2); 58.10 (b)(5); 58.10 (e); 58.14	NA	NA	
6.	Does plan include documentation (e.g., attached approval letter) for system modifications that have been approved since last ANP approval?		Y, Appendix E	Y	
7.	Any proposals to remove or move a monitoring station within a period of 18 months following plan submittal	58.10 (b)(5)	Y, p. 22-24	Y	SCAQMD is considering the following system modifications: <ul style="list-style-type: none"> <li>• Relocation of Anaheim monitoring site</li> <li>• Relocation of Upland monitoring</li> </ul>

<sup>1</sup> Unless otherwise noted.

<sup>2</sup> Response options: NA (Not Applicable), Yes, No, or Incomplete.

<sup>3</sup> Assuming the information is correct.

<sup>4</sup> Response options: NA (Not Applicable) – [reason], Yes, No, Insufficient to Judge, or Incorrect

	ANP requirement	Citation within 40 CFR 58 <sup>1</sup>	Was the information submitted? <sup>2</sup> If yes, section or page #s.	Does the information provided <sup>3</sup> meet the requirement? <sup>4</sup>	Notes
					site Please work with EPA to ensure that any such system modifications are performed appropriately.
8.	Precision/Accuracy reports submitted to AQS	58.16 (a)	Y	Y	
9.	Annual data certification submitted	58.15	Y	Y	
10.	Statement that SPMs operating an FRM/FEM/ARM that meet Appendix E also meet either Appendix A or an approved alternative. Documentation for any Appendix A approved alternative should be included. <sup>5</sup>	58.11 (a)(2)	Y	Y	
11.	SPMs operating FRM/FEM/ARM monitors for over 24 months are listed as comparable to the NAAQS or the agency provided documentation that requirements from Appendices A, C, or E were not met. <sup>6</sup>	58.20 (c)	Y, p. 9, 24	Y	
12.	For agencies that share monitoring responsibilities in an MSA/CSA: this agency meets full monitoring requirements or an agreement between the affected agencies and the EPA Regional Administrator is in place	App D 2(e)	Y	Y	
<b>GENERAL PARTICULATE MONITORING REQUIREMENTS (PM<sub>10</sub>, PM<sub>2.5</sub>, Pb-TSP, Pb-PM<sub>10</sub>)</b>					
13.	Designation of a primary monitor if there is more than one monitor for a pollutant at a site.	App. A 3.2.3	Y	Y	Azusa has PM10 parameter code listed incorrectly as '88102' instead of the correct parameter code for ozone, '81102'
14.	Distance between QA collocated monitors. For low volume PM instruments (flow rate < 200 liters/minute) > 1 m. For high volume PM instruments (flow rate > 200 liters/minute) > 2m. [Note: waiver request or the date of previous waiver approval must be included if the distance	App. A 3.2.3.4 (c) and 3.3.4.2 (c)	Y	N	Distance to QA collocated PM2.5 monitor listed as N/A at Azusa site

<sup>5</sup> Alternatives to the requirements of appendix A may be approved for an SPM site as part of the approval of the annual monitoring plan, or separately.

<sup>6</sup> This requirement only applies to monitors that are eligible for comparison to the NAAQS per 40 CFR §§58.11(e) and 58.30.

	<b>ANP requirement</b>	<b>Citation within 40 CFR 58<sup>1</sup></b>	<b>Was the information submitted?<sup>2</sup> If yes, section or page #s.</b>	<b>Does the information provided<sup>3</sup> meet the requirement?<sup>4</sup></b>	<b>Notes</b>
	deviates from requirement.]				

#### **PM<sub>2.5</sub> –SPECIFIC MONITORING REQUIREMENTS**

15.	Document how states and local agencies provide for the review of changes to a PM <sub>2.5</sub> monitoring network that impact the location of a violating PM <sub>2.5</sub> monitor.	58.10 (c)	Y, p. 17	Y	
16.	Identification of any PM <sub>2.5</sub> FEMs and/or ARMs not eligible to be compared to the NAAQS due to poor comparability to FRM(s) [Note 1: must include required data assessment.] [Note 2: Required SLAMS must monitor PM <sub>2.5</sub> with <u>NAAQS-comparable</u> monitor at the required sample frequency.]	58.10 (b)(13) 58.11 (e)	Y, p.17	Y	
17.	Minimum # of monitoring <b>sites</b> for PM <sub>2.5</sub> [Note 1: should be supported by MSA ID, MSA population, DV, # monitoring sites, and # required monitoring sites] [Note 2: Only monitors considered to be required SLAMS are eligible to be counted towards meeting minimum monitoring requirements.]	App. D 4.7.1(a) and Table D-5	Y	Y	
18.	Requirements for continuous PM <sub>2.5</sub> monitoring (number of monitors and collocation)	App. D 4.7.2	Y	Y	Near road monitors: Long Beach Route 710, Ontario Route 60
19.	FRM/FEM/ARM PM <sub>2.5</sub> QA collocation	App. A 3.2.3	Y	Y	20% of FRM sites are collocated
20.	PM <sub>2.5</sub> Chemical Speciation requirements for official STN sites	App. D 4.7.4	Y, p. 17	Y	Los Angeles site and Rubidoux sites are STN sites
21.	Identification of sites suitable and sites not suitable for comparison to the annual PM <sub>2.5</sub> NAAQS as described in Part 58.30	58.10 (b)(7)	Y, p. 17	Y	
22.	Required PM <sub>2.5</sub> sites represent area-wide air quality	App. D 4.7.1(b)	Y	Y	
23.	For PM <sub>2.5</sub> , within each MSA, at least one site at neighborhood or larger scale in an area of expected maximum concentration	App. D 4.7.1(b)(1)	Y	Y	
24.	If additional SLAMS PM <sub>2.5</sub> is required, there is a site in an area of poor air quality	App. D 4.7.1(b)(3)	Y	Y	

	ANP requirement	Citation within 40 CFR 58 <sup>1</sup>	Was the information submitted? <sup>2</sup> If yes, section or page #s.	Does the information provided <sup>3</sup> meet the requirement? <sup>4</sup>	Notes
25.	States must have at least one PM <sub>2.5</sub> regional background and one PM <sub>2.5</sub> regional transport site.	App. D 4.7.3	N/A	N/A	
26.	Sampling schedule for PM <sub>2.5</sub> - applies to year-round and seasonal sampling schedules (note: date of waiver approval must be included if the sampling season deviates from requirement)	58.10 (b)(4); 58.12(d); App. D 4.7	Y, detailed site tables	N	<p>SCAQMD did not have a sampling frequency waiver for Big Bear (06-071-8001) relevant for data collected in 2019. Big Bear therefore did not meet its required sampling frequency during the data year this ANP covers.</p> <p>On May 28, 2020, SCAQMD submitted a sampling frequency waiver for Big Bear EPA approves this sampling frequency waiver request for Big Bear. NOTE: a sampling frequency waiver is required to be submitted each year with the ANP submittal. See Enclosure C for additional information.</p>
27.	Frequency of flow rate verification for automated and manual PM <sub>2.5</sub> monitors	App. A 3.2.1	Y, detailed site tables	Y	
28.	Dates of two semi-annual flow rate audits conducted in <b>the previous CY</b> for PM <sub>2.5</sub> monitors [Note: 5 -7 month interval is recommended but not a requirement.]	App. A 3.2.2	Y, detailed site tables	Y	

#### PM<sub>10</sub> –SPECIFIC MONITORING REQUIREMENTS

29.	Minimum # of monitoring sites for PM <sub>10</sub> [Note: Only monitors considered to be required SLAMs are eligible to be counted towards meeting minimum monitoring requirements.]	App. D, 4.6 (a) and Table D-4	Y, p. 28	Y	
30.	Manual PM <sub>10</sub> method collocation (note: continuous PM <sub>10</sub> does not have this requirement)	App. A 3.3.4	Y, p. 31	Y	
31.	Sampling schedule for PM <sub>10</sub>	58.10 (b)(4); 58.12(e);	Y, p. 12	Y	

	<b>ANP requirement</b>	<b>Citation within 40 CFR 58<sup>1</sup></b>	<b>Was the information submitted?<sup>2</sup> If yes, section or page #s.</b>	<b>Does the information provided<sup>3</sup> meet the requirement?<sup>4</sup></b>	<b>Notes</b>
		App. D 4.6			
32.	Frequency of flow rate verification for automated and manual PM <sub>10</sub> monitors	App. A 3.3.1 and 3.3.2	Y, detailed site tables	Y	
33.	Dates of two semi-annual flow rate audits conducted in <b>the previous CY</b> for PM <sub>10</sub> monitors [Note: 5 -7 month interval is recommended but not a requirement.]	App. A 3.3.3	Y, detailed site tables	Y	

#### **Pb –SPECIFIC MONITORING REQUIREMENTS**

34.	Minimum # of monitors for non-NCore Pb [Note: Only monitors considered to be required SLAMs are eligible to be counted towards meeting minimum monitoring requirements.]	App D 4.5	Y, p. 30	Y	
35.	Pb collocation: for non-NCore sites	App A 3.4.4 and 3.4.5	Y, p. 31	Y	
36.	Any source-oriented Pb site for which a waiver has been granted by EPA Regional Administrator	58.10 (b)(10)	Y, no changes noted	Y	
37.	Any Pb monitor for which a waiver has been requested or granted by EPA Regional Administrator for use of Pb-PM <sub>10</sub> in lieu of Pb-TSP	58.10 (b)(11)	Y, no changes noted	Y	
38.	Designation of any Pb monitors as either source-oriented or non-source-oriented	58.10 (b)(9)	Y, no changes noted	Y	
39.	Sampling schedule for Pb	58.10 (b)(4); 58.12(b); App A 3.4.4.2 (c) and 3.4.5.3 (c)	Y, no changes noted	Y	
40.	Frequency of flow rate verification for Pb monitors audit	App A 3.4.1 and 3.4.2	Y, detailed site tables	Y	
41.	Dates of two semi-annual flow rate audits conducted in <b>the previous CY</b> for Pb monitors [Note: 5 -7 month interval is recommended but not a requirement.]	App A 3.4.3	Y, detailed site tables	Y	



	<b>ANP requirement</b>	<b>Citation within 40 CFR 58<sup>1</sup></b>	<b>Was the information submitted?<sup>2</sup> If yes, section or page #s.</b>	<b>Does the information provided<sup>3</sup> meet the requirement?<sup>4</sup></b>	<b>Notes</b>
<b>GENERAL GASEOUS MONITORING REQUIREMENTS</b>					
42.	Frequency of one-point QC check (gaseous)	App. A 3.1.1	Y, detailed site tables	Y	
43.	Date of Annual Performance Evaluation (gaseous) conducted in <b>the previous CY</b>	App. A 3.1.2	Y, detailed site tables	Y	
<b>O<sub>3</sub> –SPECIFIC MONITORING REQUIREMENTS</b>					
44.	Minimum # of monitoring sites for O <sub>3</sub> [Note 1: should be supported by MSA ID, MSA population, DV, # monitoring sites, and # required monitoring sites] [Note 2: Only monitors considered to be required SLAMs are eligible to be counted towards meeting minimum monitoring requirements.] [Note 3: monitors that do not meet traffic count/distance requirements to be neighborhood or urban scale (40 CFR Appendix E, Table E-1) cannot be counted towards meeting minimum monitoring requirements]	App D 4.1(a) and Table D-2	Y, p. 26	Y	
45.	Identification of maximum concentration O <sub>3</sub> site(s)	App D 4.1 (b)	Y	Y	
46.	Sampling season for O <sub>3</sub> (Note: Waivers must be renewed annually. EPA expects agencies to submit re-evaluations of the relevant data each year with the ANP. EPA will then respond as part of the ANP response.)	58.10 (b)(4); App D 4.1(i)	Y, detailed site tables	Y	
47.	An Enhanced Monitoring Plan for O <sub>3</sub> , if applicable, no later than October 1, 2019 or two years following the effective date of a designation to a classification of Moderate or above O <sub>3</sub> nonattainment, whichever is later.	58.10 (a)(11); App D 5 (h)	Y, Appendix D	Y	
<b>NO<sub>2</sub> –SPECIFIC MONITORING REQUIREMENTS</b>					
48.	Minimum monitoring requirements for area-wide NO <sub>2</sub> monitor in location of expected highest NO <sub>2</sub> concentrations representing	App D 4.3.3	Y, p. 28	Y	

	<b>ANP requirement</b>	<b>Citation within 40 CFR 58<sup>1</sup></b>	<b>Was the information submitted?<sup>2</sup> If yes, section or page #s.</b>	<b>Does the information provided<sup>3</sup> meet the requirement?<sup>4</sup></b>	<b>Notes</b>
	neighborhood or larger scale				
49.	Minimum monitoring requirements for susceptible and vulnerable populations monitoring (aka RA40) NO <sub>2</sub>	App D 4.3.4	Y, no changes noted	Y	
50.	Identification of required NO <sub>2</sub> monitors as either near-road, area-wide, or vulnerable and susceptible population (aka RA40)	58.10 (b)(12)	Y, no changes noted	Y	
<b>NEAR ROADWAY – SPECIFIC MONITORING REQUIREMENTS</b>					
In CBSAs ≥ 2.5 million, the following near-roadway minimum monitoring requirements apply:					
51.	Two NO <sub>2</sub> monitors	App. D 4.3.2(a); 58.13(c)(3) and (4)	Y, no changes noted	Y	
52.	One CO monitor	App. D 4.2.1(a); 58.13(e)(2)	Y, no changes noted	Y	
53.	One PM <sub>2.5</sub> monitor	App. D 4.7.1(b)(2); 58.13(f)(2)	Y, no changes noted	Y	
In CBSAs ≥ 1 million and AADT ≥ 250K, the following near-roadway minimum monitoring requirements apply:					
54.	Two NO <sub>2</sub> monitors	App. D 4.3.2(a); 58.13(c)(3) and (4)	Y, no changes noted	Y	
55.	One CO monitor	App. D 4.2.1(a); 58.13(e)(2)	Y, no changes noted	Y	
56.	One PM <sub>2.5</sub> monitor	App. D 4.7.1(b)(2); 58.13(f)(2)	Y, no changes noted	Y	
In CBSAs ≥ 1 million and ≤ 2.5 million AND AADT < 250K, the following near-roadway minimum monitoring requirements apply:					
57.	One NO <sub>2</sub> monitor	App. D 4.3.2(a); 58.13(c)(3)	Y, no changes noted	Y	
58.	One CO monitor	App. D 4.2.1(a); 58.13(e)(2)	Y, no changes noted	Y	

	<b>ANP requirement</b>	<b>Citation within 40 CFR 58<sup>1</sup></b>	<b>Was the information submitted?<sup>2</sup> If yes, section or page #s.</b>	<b>Does the information provided<sup>3</sup> meet the requirement?<sup>4</sup></b>	<b>Notes</b>
59.	One PM <sub>2.5</sub> monitor	App. D 4.7.1(b)(2); 58.13(f)(2)	Y, no changes noted	Y	

#### **SO<sub>2</sub> –SPECIFIC MONITORING REQUIREMENTS**

60.	Minimum monitoring requirements for SO <sub>2</sub> based on PWEI and/or RA required monitors under Appendix D 4.4.3 [Note: Only monitors considered to be required SLAMs are eligible to be counted towards meeting minimum monitoring requirements.]	App D 4.4	Y, no changes noted	Y	
61.	Monitors used to meet Data Requirements Rule	51.1203(c)	Y	Y	

#### **NCORE –SPECIFIC MONITORING REQUIREMENTS**

62.	NCore site and all required parameters operational: year-round O <sub>3</sub> , SO <sub>2</sub> , CO, NO <sub>y</sub> , NO, PM <sub>2.5</sub> mass, PM <sub>2.5</sub> continuous, PM <sub>2.5</sub> speciation, PM <sub>10-2.5</sub> mass, resultant wind speed at 10m, resultant wind direction at 10m, ambient temperature, relative humidity. NO <sub>y</sub> waiver, if applicable.	App. D 3(b)	Y	Y	
63.	A plan for making Photochemical Assessment Monitoring Stations (PAMS) measurements, if applicable. The plan shall provide for the required PAMS measurements to begin by June 1, 2021.	58.10 (a)(10); 58.13 (h)	Y, Appendix D	Y	

#### **SITE OR MONITOR - SPECIFIC REQUIREMENTS (OFTEN INCLUDED IN DETAILED SITE INFORMATION TABLES)**

64.	AQS site identification number for each site	58.10 (b)(1)	Y, detailed site tables	Y	
65.	Location of each site: street address and geographic coordinates	58.10 (b)(2)	Y, detailed site tables	Y	
66.	MSA, CBSA, CSA or other area represented by the monitor	58.10 (b)(8)	Y, detailed site tables	Y	

	<b>ANP requirement</b>	<b>Citation within 40 CFR 58<sup>1</sup></b>	<b>Was the information submitted?<sup>2</sup> If yes, section or page #s.</b>	<b>Does the information provided<sup>3</sup> meet the requirement?<sup>4</sup></b>	<b>Notes</b>
67.	Parameter occurrence code for each monitor	Needed to determine if other requirements (e.g., min # and collocation) are met	Y, detailed site tables	Y	POC information is a priority for criteria pollutant monitors and was provided in the ANP. If possible, please also provide POC information for the following non-criteria pollutant monitors in future plans. -Los Angeles site missing POC for: PM2.5 Carbon, Speciated PM2.5 (x2), Metals Cr6 Carbonyls, 24-hour VOCs, Hourly Carbonyls, Hourly VOC -Rubidoux site missing POC for: Hourly VOCs, VOCs, Speciated PM2.5 (x2), PM2.5 Carbon (x2), Metals Cr6 Carbonyls
68.	Basic monitoring objective for each monitor	App D 1.1; 58.10 (b)(6)	Y, detailed site tables	Y	
69.	Site type for each monitor	App D 1.1.1	Y	Y	
70.	Monitor type for each monitor, and Network Affiliation(s) as appropriate	Needed to determine if other requirements (e.g., min # and collocation) are met	Y	Y	
71.	Scale of representativeness for each monitor as defined in Appendix D	58.10(b)(6); App D	Y, detailed site tables	Y	
72.	Parameter code for each monitor	Needed to determine if other requirements (e.g., min # and collocation) are met	Y	N	Missing from Lake Elsinore, and Perris (PM 10)
73.	Method code and description (e.g., manufacturer & model) for each monitor	58.10 (b)(3); App C 2.4.1.2	Y, detailed site tables	Y	Los Angeles site missing method code for: Metals, Cr6, Carbonyls monitor, 24-hour VOCs monitor, PM2.5 Carbon monitor, Speciated PM2.5 monitor (x2). While these are non-criteria parameters, EPA would appreciate inclusion of this information in future ANPs.

	<b>ANP requirement</b>	<b>Citation within 40 CFR 58<sup>1</sup></b>	<b>Was the information submitted?<sup>2</sup> If yes, section or page #s.</b>	<b>Does the information provided<sup>3</sup> meet the requirement?<sup>4</sup></b>	<b>Notes</b>
74.	Sampling start date for each monitor	Needed to determine if other requirements (e.g., min # and collocation) are met	Y	Y	
75.	Distance of monitor from nearest road	App E 6	Y	Y	
76.	Traffic count of nearest road	App E	Y	Y	
77.	Groundcover	App E 3(a)	Y	Y	
78.	Probe height	App E 2	Y	Y	
79.	Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	App E 2	Y	Y	
80.	Distance from obstructions on roof (horizontal distance to the obstruction and vertical height of the obstruction above the probe should be provided)	App E 4(b)	Y	Y	
81.	Distance from obstructions not on roof (horizontal distance to the obstruction and vertical height of the obstruction above the probe should be provided)	App E 4(a)	Y	Y	
82.	Distance from the drip line of closest tree(s)	App E 5	Y, detailed site reports	Insufficient to judge	A siting waiver has been submitted outside this of this ANP submission: <ul style="list-style-type: none"> <li>Pasadena- 6m to tree.</li> </ul> This waiver is under review and will be evaluated outside the ANP process.
83.	Distance to furnace or incinerator flue	App E 3(b)	Y, detailed site reports	Insufficient to judge	Pico Rivera- 4m to flue. No discussion of predominant wind direction.
84.	Unrestricted airflow (expressed as degrees around probe/inlet or percentage of monitoring path)	App E, 4(a) and 4(b)	Y, detailed site reports	Insufficient to judge	Crestline- 225 degrees of unrestricted airflow
85.	Probe material (NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; For PAMS: VOCs, Carbonyls)	App E 9	Y	Y	
86.	Residence time (NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; For PAMS: VOCs, Carbonyls)	App E 9	Y	Y	

### Public Comments on Annual Network Plan

Were comments submitted to the S/L/T agency during the public comment period?	<b>No</b>
Were comments included in ANP submittal?	<b>N/A</b>
Were any of the comments substantive? If yes, which ones? If comments were not substantive provide rationale.	<b>N/A</b>
Were S/L/T responses to substantive comments included in ANP submittal?	<b>N/A</b>
Were the S/L/T responses to substantive comments adequate?	<b>N/A</b>
Do the substantive comments require separate EPA response (i.e., agency response wasn't adequate)?	<b>N/A</b>
Are the sections of the annual network plan that received substantive comments approvable after consideration of comments? If yes, provide rationale	<b>N/A</b>

## B. Approval of the SCAQMD Request for PM<sub>2.5</sub> FEM Waiver

In the 2020 annual network plan for SCAQMD, your agency requested EPA's approval to consider the 2017-2019 PM<sub>2.5</sub> data from your continuous federal equivalent method (FEM) monitors at the following sites as not eligible for comparison to the NAAQS: Central Los Angeles/Los Angeles (Main St.) (AQS ID: 06-037-1103-9), Mira Loma (AQS ID: 06-065-8005-3), and Long Beach Route 710 (AQS ID: 06-037-4008-3). This enclosure is in response to your request and approves the monitors listed below for the specified dates as not eligible for comparison to the NAAQS (i.e., provides a waiver for NAAQS comparability).

According to 40 CFR 58.11(e), in order to be considered not eligible for comparison to the NAAQS, continuous FEM PM<sub>2.5</sub> data must be shown to not meet the criteria in 40 CFR 53 Table C-4. These criteria describe the maximum allowable multiplicative and additive bias between a filter-based federal reference method (FRM) PM<sub>2.5</sub> monitor and a Class III continuous FEM PM<sub>2.5</sub> monitor operating at the same site. EPA based its evaluation on the criteria in 40 CFR 53 as described by the EPA Memorandum *Subject: Update on Use of PM<sub>2.5</sub> Continuous FEMS* dated April 20, 2013 and its attached document, titled "Instructions and Template for Requesting that data from PM<sub>2.5</sub> Continuous FEMs are not compared to the NAAQS."

We reviewed your request for 2017-2019 data and have determined that the following monitors do not meet the bias criteria in 40 CFR 53 and are approved as not eligible for comparison to the NAAQS for the noted time periods:

Site Name	AQS ID-POC	Begin Date	End Date
Central Los Angeles (Main St.)	06-037-1103-9	01/01/2017	12/31/2019
Mira Loma	06-065-8005-3	01/01/2017	12/31/2019
Long Beach Route 710	06-037-4008-3	01/01/2017	12/31/2019

Your request stated that you consider the continuous PM<sub>2.5</sub> data of sufficient quality to report to the AQI, and will be submitting the data to AIRNow. As such, it is appropriate to submit the data from the monitors and dates in the table above to AQS under the parameter code 88502.

In providing the waiver for the data in the timeframes listed above, EPA expects that SCAQMD will continue to work to improve the comparability of the continuous PM<sub>2.5</sub> FEM monitors and their filter-based monitors. If SCAQMD intends to submit data from these monitors under a parameter code other than 88101, an updated analysis of the bias for each FEM monitor should be included in future annual network plans for a renewed waiver approval.

In addition, since the intent of such a waiver is to allow more time for method and operational improvements to meet the required bias, SCAQMD must develop a performance assessment and improvement plan to be approved by EPA that describes how the agency will track the performance of these monitors on a quarterly or more frequent basis, as well as the activities SCAQMD intends to take to address any continuing performance issues.

Your request also noted that the PM<sub>2.5</sub> FEM datasets for Anaheim (AQS ID: 06-059-0007-3), South Long Beach (AQS ID: 06-037-4004-3), Ontario Route 60 (AQS ID: 06-071-0027), and

Rubidoux (AQS ID: 06-065-8001) now pass bias and/or correlation requirements to be included in the NAAQS and will be reclassified in AQS from 88502 in AQS to 88101 for the next 18 months (until December 31, 2020). EPA agrees with these reclassifications.

Please work to make the changes in AQS described in this approval in a timely manner. This will allow the AQS data record to accurately reflect monitors and design values relevant, and not relevant, for comparison to the NAAQS.



## EPA Evaluation of the Request for Exclusion of PM<sub>2.5</sub> Continuous FEM Data

2017-2019

Site Name	Site ID	Cont POC	Method Description	PM <sub>2.5</sub> Cont. Analysis Begin Date	PM <sub>2.5</sub> Cont Analysis End Date	Continuous/ FRM Sampler pairs per season	Slope (m)	Intercept (y)	Meets bias requirement	Correlation (r)
<i>Sites with PM<sub>2.5</sub> continuous FEMs that are collocated with FRMs:</i>										
Central Los Angeles (Main St.)	06-037-1103	9	Met-One BAM 1020 w/VSCC	01/01/2017	12/31/2019	Winter = 251 Spring = 272 Summer = 262 Fall = 264 Total = 1049	1.00	2.98	No	0.93
Long Beach Route 710	06-037-4008	3	Thermo BAM 5014i w/VSCC	01/01/2017	12/31/2019	Winter = 232 Spring = 266 Summer = 257 Fall = 207 Total = 962	0.99	2.18	No	0.93
Mira Loma (Van Buren)	06-065-8005	3	Met-One BAM 1020 w/VSCC	01/01/2017	12/31/2019	Winter = 251 Spring = 258 Summer = 264 Fall = 265 Total = 1038	0.91	2.24	No	0.94

### **C. Approval of Sample Frequency Reduction at Big Bear Air Monitoring Station**

This enclosure serves as an approval for the SCAQMD request dated May 28, 2020 for a PM<sub>2.5</sub> sampling frequency reduction waiver. This waiver approves a 1-in-6 day sampling frequency for the primary PM<sub>2.5</sub> sampler at the Big Bear State or Local Air Monitoring Station (SLAMS) site (AQS ID: 06-071-8001). Monitoring agencies must have PM<sub>2.5</sub> sampling frequency reductions approved by the U.S Environmental Protection Agency (EPA), with such approval based on consideration of factors described in 40 CFR 58.12(d)(1) and the determination that the sampling frequency reduction will not compromise data needed for implementation of the applicable National Ambient Air Quality Standards (NAAQS).

Review of the record of data from SCAQMD's Big Bear PM<sub>2.5</sub> sampler against the factors set forth in 40 CFR 58.12(d)(1) supports a determination that the sampling frequency reduction will not compromise data needed for implementation of the NAAQS. For design value years 2017, 2018, and 2019 (encompassing data from calendar years 2015-2019), Big Bear's annual PM<sub>2.5</sub> design values were not within  $\pm 10$  percent of the level of the 2012 annual PM<sub>2.5</sub> NAAQS. All three design values were below the 2012 annual PM<sub>2.5</sub> NAAQS. For design value years 2017, 2018, and 2019, Big Bear's 24-hour PM<sub>2.5</sub> design values were not within  $\pm 5$  percent of the level of the 2006 24-hour NAAQS. For data years 2017-2019, there were no exceedances of the 2006 24-hour PM<sub>2.5</sub> NAAQS. Big Bear's PM<sub>2.5</sub> sampler does not determine the design value (2012 annual or 2006 24-hour PM<sub>2.5</sub> NAAQS) for the area. Big Bear does not have a National Core multipollutant monitoring station, required regional background or regional transport sites, nor a speciation sampler for a speciation trends network station.

Therefore, EPA approves the waiver request for 1-in-6 day PM<sub>2.5</sub> sampling frequency for the sampler at the Big Bear site. In next year's annual network plan (ANP), please continue to provide the relevant design value information, mention this currently approved sampling frequency (or include this waiver approval in the ANP), and submit a new waiver request if continuation of the waiver is desired.